Name _____ Date _____

Square Roots and Cube Roots Exit Ticket

Directions: Answer each question. Type number answers with digits, and use a decimal point when needed.

1. What is $\sqrt{121}$?

_____

2. What is the cube root of 125, written $\sqrt[3]{125}$?

_____

3. What are the solutions of $x^2 = 81$?

A. $x = 9$ only
B. $x = 9$ or $x = -9$
C. $x = 6{,}561$
D. $x = 40.5$

4. A square tile has an area of 2.25 square feet. What is the length of one side, in feet? Type your answer as a decimal.

_____ feet

5. A box shaped like a cube has a volume of 64 cubic inches. What is the length of one edge, in inches?

_____ inches

6. Between which two consecutive whole numbers is $\sqrt{50}$?

A. 25 and 26
B. 7 and 8
C. 5 and 10
D. 49 and 64

7. Which statements are true? Select the 3 that apply.

☐ A. $\sqrt{64} = 8$
☐ B. $\sqrt{2}$ is irrational
☐ C. $\sqrt[3]{64} = 4$
☐ D. $\sqrt{49} = 24.5$
☐ E. $\sqrt[3]{27} = 9$
☐ F. $\sqrt{2} = 1.4$

8. A square patio has an area of 144 square feet. Fatima finds the length of one side. Her work is shown.

1. side $\times$ side $= 144$
2. side $= 144 \div 4$
3. side $= 36$
4. The side is 36 feet long.

Which step has the first mistake?

A. side $\times$ side $= 144$
B. side $= 36$
C. side $= 144 \div 4$
D. There is no mistake.
E. The side is 36 feet long.